Appendix C NPDES Combined Form 1 & 2C National Pollutant Discharge Elimination System Permit Application for a Facility Discharging Wastewater from Manufacturing and Commercial Operations. [New addition to regulation]



# Nebraska Department of Environmental Quality

Wastewater Section

Suite 400, The Atrium, 1200 'N' Street PO Box 98922 Lincoln, NE 68509-8922 Tel. 402/471-4220 Fax 402/471-2909

NPDES Combined Form 1 & 2C

NE Dept of Environment and Energy National Pollutant Discharge Elimination System Permit Application for a Facility Discharging Wastewater from Manufacturing and Commercial Operations.

This Area is For Agency Use NPDES Number NE IIS Number Date Rec'd 1. Facility Information A. Owner of Facility (Permittee) AltEn, LLC Street 5225 Renner Road City Shawnee Kansas State 66217 Zip B. Name of Facility AltEn, LLC C. Facility Contact Person Ex. 4 CBI Ex. 4 CBI Email [ D. Facility Mailing Address Street 1344 County Road Mead City NE State Zip 68041 E. Facility Location (if different from above) Street Zip State F. Facility Legal Description

N 4 of the SW 4, Section 12, Township 14 N, Rang	ge 8E (E or W), Saunders County
G. Business Activity and Facility Operations (continued on	next page)
Standard Industrial Classification (SIC) Code(s) Applicable to the	Facility 2869
Description of Operations and Services:	
Former denatured ethanol production. Operations have currently	y ended.
2. Wastewater Sources (check applicable items)	
A. Application Status (check one)	NYMYNYO PARROLL ARREST CONTROL
X NPDES Permit Reapplication for Existing Source	NPDES Permit Application for New Source
B. Additional Forms Required	
Facility discharging domestic wastewater	Submit NPDES Form 2A
X Facility discharging industrial wastewater	Submit NPDES Form 2C
Facility discharging nonprocess wastewater	Submit NPDES Form 2E
Facility is a fish hatchery or fish farm Industrial facility discharging stormwater	Submit NPDES Form 2B Submit NPDES Form 2F
X Land application of treated effluent	Submit Land Application Form
3. Other Existing Environmental Permits	Permit Number
X NPDES (discharge to surface water)	NE0137634
NPP (Nebraska Pretreatment Permit)	
UIC (underground injection of fluids)	
RCRA (hazardous waste)	
Air Permit Other (specify)	
Onvi (oberus)	

## 4. Map

Attach to this application a topographic map (7.5 minute USGS) of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area.

# 5. Facility Flow Diagram

Attach a line drawing showing the water flow through the facility. The diagram must show all regulated and non-regulated process wastewater flows, and all points of discharge to sanitary sewer, storm sewers, surface waters, septic tanks, injection wells, or other discharge points including floor drains. Indicate sources of intake water, operations contributing wastewater to the effluent, and wastewater treatment units along with each discharge outfall. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls.

6. Process Wastewater Tro	atment System Informatio	n	
A. Does the process wastewater i	undergo treatment before discharg	e to the receiving water?	
X Yes	No		
Treated water will be lan		treatment process should also be point, filtration, and activated continued in the second continues and activated activa	provided)
Maximum Daily Flow (MGD)	1.44 (Flow to Fields)	Design Daily Flow (MGD)	1.0 (Flow to Fields)
Average Daily Flow (MGD)		Design Maximum Flow (MG	
B. Is there any sludge (i.e. any so	did, semisolid, or liquid waste) ge	nerated from the process wastewa	ter treatment system?
X Yes	No		
If yes, provide an attachment spec Sludge generated will be re		sal practices.	
C. Does the treatment works land	l-apply treated wastewater?		
	separate application form )	No	
7. Operator Information A. Treatment Facility Operator (I	_ast, First,) and Phone Number		
	Ph		
Operator Certification Number		Operator Class	
B. Operator's Mailing Address			
Street			
City		_State	Zip
C. Operation/Maintenance Perfor			
Are any operational or maintenantesponsibility of a contractor?			he treatment works the
Name	Ph	Email	
Street			
City			
Responsibilities of contractor			
~			

D. Compliance Sampling				
Is compliance sampling of the discharge provide the following	effluent the responsi	bility of a contract lat	boratory?ye	s X no If yes
Name	Ph		Email	
Street				
City				Zip
Responsibilities of laboratory				
8. "Non-Discharged" Wastes				
Provide descriptions and quantities of wa attachment if more space is needed). Als	so describe how these	e wastes are disposed	of:	s of the State (provide
y. Outtaii information				
9. Outfall Information  How many separate outfalls discharge to				and the second state of the second se
How many separate outfalls discharge to  A. Location of Outfall(s) (Include an att  Outfall 001	achment to the permi	t for the following in	formation if there a	
How many separate outfalls discharge to  A. Location of Outfall(s) (Include an att  Outfall 001  NE Quarter, SW Quarter, Section 12	achment to the permi	it for the following in North, Range08(E	formation if there a	lers County, NE
How many separate outfalls discharge to  A. Location of Outfall(s) (Include an att  Outfall 001  NE Quarter, SW Quarter, Section 12  Latitude (deg. 41 min. 11	achment to the permi  2. Township 14 3  sec 48	it for the following in North, Range_08(Ea_) Longitude (deg	formation if there a  ast) West), Suanc  96 min.	lers County, NE
How many separate outfalls discharge to  A. Location of Outfall(s) (Include an att  Outfall 001  NE Quarter, SW Quarter, Section 12  Latitude (deg. 41 min. 11  Name of receiving waters Unnamed to	achment to the permi  Township 14 ?  sec 48  ributary of Clear Cree	it for the following in North, Range 08 (Ea ) Longitude (degek ( No discharge from	ast) West), Suance 96 min. m site to this outfal	lers County, NE  28 sec 37 I anticipated at this time)
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How many separate outfalls discharge to  A. Location of Outfall(s) (Include an att  Outfall 001  NE Quarter, SW Quarter, Section 12  Latitude (deg. 41 min. 11  Name of receiving waters Unnamed to  Name of watershed if known  Provide a description of all operations co (e.g. noncontact or sanitary) and the aver  Operation NA	achment to the perminate of the perminat	North, Range08(Ea_) Longitude (degek ( No discharge from the effluent to ind by each process.  Operation	ast) West), Suance 96 min. m site to this outfal	lers County, NE  28 sec 37  I anticipated at this time)  and nonprocess wastewater  Flow
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Outfall 00	3							
<u>NE</u> Quarte	r, <u>SW</u> Quarter, Sectio	on <u>12</u> , Towr	iship <u>14</u> No	orth, Range_	08 (East) We	st),Suar	nders	County, NE
Latitude (deg	gmin	sec	<b>,</b> '	) Longitude	(deg	min	sec_	)
Name of reco	eiving watersNo	ot applicable (I	and applied)					
Name of wat	ershed if known						***************************************	
Provide a des	scription of all operati act or sanitary) and th	ons contributi	ng wastewater	to the efflue	nt to include bo	oth process a	nd nonprocess	wastewater
Operation	See Attachment 1	Flow		Operation			Flow	
Operation		Flow		Operation	~		Flow	
If yes, pr	or storm runoff, leaks ovide the following in	formation:		<b>—</b>		· •		
Outfall Number	Operations Contributing Flow	1	uency averages)	1	w Rate MGD)		Volume gal.)	Duration in Days
		days/week	months/yr	average	maximum	average	maximum	
B. Are the li	Effluent Guideline lims s (complete item 10 B mitations in the applicands of pollutant per mes (complete table belows)	below) cable Effluent cillion pounds	Guideline exp	ressed in terr	NoX_ (g	to to Section	11) easure of open	

Affected Outfalls	Quantity per Day	Units of Measure	Specify Operation, Product, or Materials
	***************************************		
	***************************************	***************************************	
	***************************************	***************************************	
		***************************************	
	***************************************		

# 11. Intake and Effluent Characteristics

None

A. List the sources of intake water

	Source Municipal System Ground Water Other (Specify) Total	Gallons per Day (gpd)	
В.	Which (if any) industrial category	listed in Attachment A, Table I does your facility fall under?	None

Provide an attachment to this application that lists all the pollutants listed in Attachment A, Tables II-V, which you know or have reason to believe are or may be discharged from any outfall. Also provide the source of the pollutants, the outfall they are discharged from and approximate amount discharged. If you have analytical results for any of these pollutants, please attach these as well. NDEQ may require additional information and/or analysis of these pollutants at a later date.

C. Provide the results of at least one analysis for every pollutant in this table for each outfall. This testing may be waived by the NDEQ in some circumstances or additional tests may be required by NDEQ to complete the application process. (provide an attachment for additional outfalls)

Pollutant	Units	Maximum daily value	Average monthly value	No. of analyses
Biochemical oxygen demand (BOD)	mg/L			
Chemical oxygen demand (COD)	mg/L			
Total organic carbon (TOC)	mg/L			
Ammonia (as N)	mg/L			
Flow	MGD			
Temperature	۰F			
pH	S.U.	Maximum =	Minimum =	

Outfall Number:				
Pollutant	Units	Maximum daily value	Average monthly value	No. of analyses
Biochemical oxygen demand (BOD)	mg/L			
Chemical oxygen demand (COD)	mg/L			
Total organic carbon (TOC)	mg/L			
Ammonia (as N)	mg/L			
Flow	MGD			
Temperature	۰F			
pH	S.U.	Maximum =	Minimum =	

Outfall Number:				
Pollutant	Units	Maximum daily value	Average monthly value	No. of analyses
Biochemical oxygen demand (BOD)	mg/L			
Chemical oxygen demand (COD)	mg/L			
Total organic carbon (TOC)	mg/L			
Ammonia (as N)	mg/L			
Flow	MGD			
Temperature	۰F			
На	S.U.	Maximum =	Minimum =	

D.	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any o your discharges or on a receiving water in relation to your discharge within the last three years?
	YesXNo
ľ	yes, identify the tests and describe their purpose below
~~~	
*******	

12.	Other	Informa	ition

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the facility.
13. Certification (see Signatory Authorization Form for designation of Cognizant Official)
I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete, and accurate, and if this permit is granted, I agree to abide by the Nebraska Environmental Protection Act (Neb. Rev. Stat. Secs. 81-150) et. seq. as amended to date) and all rules, regulations, orders, decisions promulgated there under, and subject to any legitimate appeal available to the applicant under the Act
Cognizant Official's Signature Ex. 4 CBI Date 12-23-21
Cognizant Official's Signature <b>Ex. 4 CBI</b> Cognizant Official's Printed Name <b>Ex. 4 CBI</b> Title President

**Table 1--**Testing Requirements for Organic Toxic Pollutants by Industrial Category for Existing Dischargers

GC/MS Fraction \1\

			Base/	
Industrial category	Volatile	Acid	neutral	Pesticide
Adhesives and Sealants	\2\	\2\	\2\	
Aluminum Forming	\2\	\2\	\2\	0,000
Auto and Other Laundries	121	121	\2\	\2\
Battery Manufacturing	\2\		\2\	
Coal Mining	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1/2/	\2\	\2\
	1	3		
Coil Coating	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	121	\2\	********
Copper Forming	\2\	\2\	\2\	000000 (m):
Electric and Electronic	\\2\	\2\	\2\	\2\
Components				
Electroplating	\2\	\2\	\2\	********
Explosives Manufacturing	20120613	/5/	\2\	*******
Foundries	\2\	\2\	\2\	********
Gum and Wood Chemicals	\\\\\\\	\2\	\2\	\2\
Inorganic Chemicals Manufacturing	\2\	\2\	\2\	******
Iron and Steel Manufacturing	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\2\	\2\	*****
Leather Tanning and Finishing	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\2\	\2\	\2\
Mechanical Products Manufacturing	\2\	\2\	\2\	*******
Nonferrous Metals Manufacturing	\2\	\2\	\2\	\2\
Ore Mining	\2\	\2\	\2\	\2\
Organic Chemicals Manufacturing	\2\	\2\	\2\	\2\
Paint and Ink Formulation	\2\	\2\	\2\	\2\
Pesticides	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\2\	\2\	\2\
Petroleum Refining	\2\	\2\	\2\	\2\
Pharmaceutical Preparations	\2\	\2\	\2\	********
Photographic Equipment and	\2\	\2\	\2\	\2\
Supplies				
Plastic and Synthetic Materials	\2\	\2\	\2\	\2\
Manufacturing				
Plastic Processing	\2\	^******	465365136	
Porcelain Enameling	121	********	\2\	\2\
Printing and Publishing	121	\2\	\2\	\2\
Pulp and Paper Mills	121	\2\	\2\	\2\
Rubber Processing	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\2\	121	
Soap and Detergent Manufacturing.	121	\2\	\2\ \2\	*******
Steam Electric Power Plants	1	3		*******
Textile Mills	\2\	\2\	\2\	કરાક્કારક કુંજાણ
	\2\	\2\	\2\	\2\
Timber Products Processing	\2\	\2\	\2\	\2\

I\ The toxic pollutants in each fraction are listed in Table II.

<sup>\2\</sup> Testing may be required.

**Table II**—Organic Toxic Pollutants in Each of Four Fractions in Analysis by Gas Chromatography/Mass Spectroscopy (GS/MS) (continued on next page)

#### Volatiles

IV acrolein	17V 1,2-dichloropropane
2V acrylonitrile	18V 1,3-dichloropropylene

3V benzene19V ethylbenzene5V bromoform20V methyl bromide6V carbon tetrachloride21V methyl chloride7V chlorobenzene22V methylene chloride8V chlorodibromomethane23V 1,1,2,2-tetrachloroethane9V chloroethane24V tetrachloroethylene

10V 2-chloroethylvinyl ether 25V toluene

11V chloroform26V 1,2-trans-dichloroethylene12V dichlorobromomethane27V 1,1,1-trichloroethane14V 1,1-dichloroethane28V 1,1,2-trichloroethane15V 1,2-dichloroethane29V trichloroethylene16V 1,1-dichloroethylene31V vinyl chloride

### **Acid Compounds**

1A 2-chlorophenol	7A 4-nitrophenol
2A 2,4-dichlorophenol	8A p-chloro-m-cresol
3A 2,4-dimethylphenol	9A pentachlorophenol

4A 4,6-dinitro-o-cresol 10A phenol

5A 2,4-dinitrophenol 11A 2,4,6-trichlorophenol

6A 2-nitrophenol

### Base/Neutral (continued on next page)

1B acenaphthene	16B 2-chloronaphthalene

2B acenaphthylene 17B 4-chlorophenyl phenyl ether

3B anthracene 18B chrysene

4B benzidine 19B dibenzo(a,h)anthracene 5B benzo(a)anthracene 20B 1,2-dichlorobenzene 21B 1,3-dichlorobenzene 6B benzo(a)pyrene 7B 3,4-benzofluoranthene 22B 1.4-dichlorobenzene 8B benzo(ghi)perylene 23B 3,3'-dichlorobenzidine 9B benzo(k)fluoranthene 24B diethyl phthalate 10B bis(2-chloroethoxy)methane 25B dimethyl phthalate 11B bis(2-chloroethyl)ether 26B di-n-butyl phthalate 12B bis(2-chloroisopropyl)ether 27B 2,4-dinitrotoluene

13B bis (2-ethylhexyl)phthalate 28B 2,6-dinitrotoluene 24B 4-bromophenyl phenyl ether 29B di-n-octyl phthalate

15B butvlbenzyl phthalate 30B 1,2-diphenylhydrazine (as azobenzene)

**Table II**—Organic Toxic Pollutants in Each of Four Fractions in Analysis by Gas Chromatography/Mass Spectroscopy (GS/MS) (continued)

# Base/Neutral (continued)

31B	fluroranthene	39B	napthalene
32B	fluorene	40B	nitrobenzene

33B hexachlorobenzene41B N-nitrosodimethylamine34B hexachlorobutadiene42B N-nitrosodi-n-propylamine35B hexachlorocyclopentadiene43B N-nitrosodiphenylamine

36B hexachloroethane 44B phenanthrene 37B indeno(1,2,3-cd)pyrene 45B pyrene

38B isophorone 46B 1,2,4-trichlorobenzene

#### **Pesticides**

1 P aldrin	14P endrin
------------	------------

2P alpha-BHC 15P endrin aldehyde 3P beta-BHC 16P heptachlor

4P gamma-BHC 17P heptachlor epoxide

5P delta-BHC 18P PCB-1242 6P chlordane 19P PCB-1254 7P 4,4'-DDT 20P PCB-1221 8P 4,4'-DDE 21P PCB-1232 9P 4,4'-DDD 22P PCB-1248 10P dieldrin 23P PCB-1260 I IP alpha-endosulfan 24P PCB-1016 12P beta-endosulfan 25P toxaphene 13P endosulfan sulfate

Table III--Other Toxic Pollutants (Metals and Cyanide) and Total Phenols

Antimony, Total Nickel, Total
Arsenic, Total Selenium, Total
Beryllium, Total Silver, Total
Cadmium, Total Thallium, Total
Chromium, Total Zinc, Total
Copper, Total Cyanide, Total
Lead, Total Phenols, Total
Mercury, Total

Table IVConventional and Nonconventional Pollutants		
Bromide	Sulfite	***************************************
Chlorine, Total Residual	Surfactants	
Color	Aluminum, Total	
Fecal Coliform	Barium, Total	
Fluoride	Boron, Total	
Nitrate-Nitrite	Cobalt, Total	
Nitrogen, Total Organic	Iron, Total	
Oil and Grease	Magnesium, Total	
Phosphorus, Total	Molybdenum, Total	
Radioactivity	Manganese, Total	
Sulfate	Tin, Total	
Sulfide	Titanium, Total	

**Table V**—Toxic Pollutants and Hazardous Substances Required To Be Identified by Existing Dischargers if Expected To Be Present

### **Toxic Pollutants**

Asbestos

Diethyl amine

### Hazardous Substances

Acetaldehyde Kelthane
Allyl alcohol Kepone
Allyl chloride Malathion

Amyl acetate Mercaptodimethur Methoxychlor Aniline Benzonitrile Methyl mercaptan Benzyl chloride Methyl methacrylate Butyl acetate Methyl parathion Butylamine Mevinphos Captan Mexacarbate Carbaryl Monoethyl amine Carbofuran Monomethyl amine

Carbon disulfide Naled

Chlorpyrifos Napthenic acid Coumaphos Nitrotoluene Cresol Parathion Crotonaldehyde **Phenolsulfanate** Cyclohexane Phosgene 2,4-D (2,4-Dichlorophenoxy acetic acid) Propargite Diazinon Propylene oxide Dicamba Pyrethrins Dichlobenil Ouinoline Dichlone Resorcinol 2,2-Dichloropropionic acid Strontium Dichlorvos Strychnine

Dimethyl amine 2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)

Dintrobenzene TDE (Tetrachlorodiphenylethane)

Diquat 2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]

Styrene

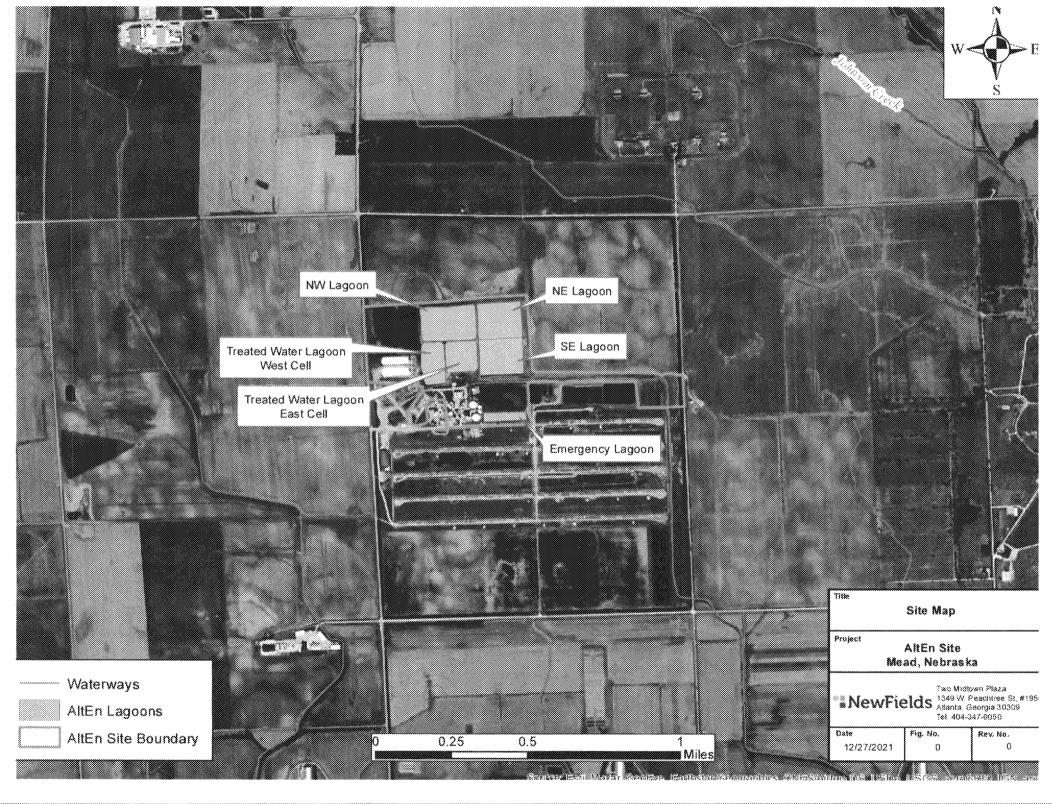
Disulfoton Trichlorofan

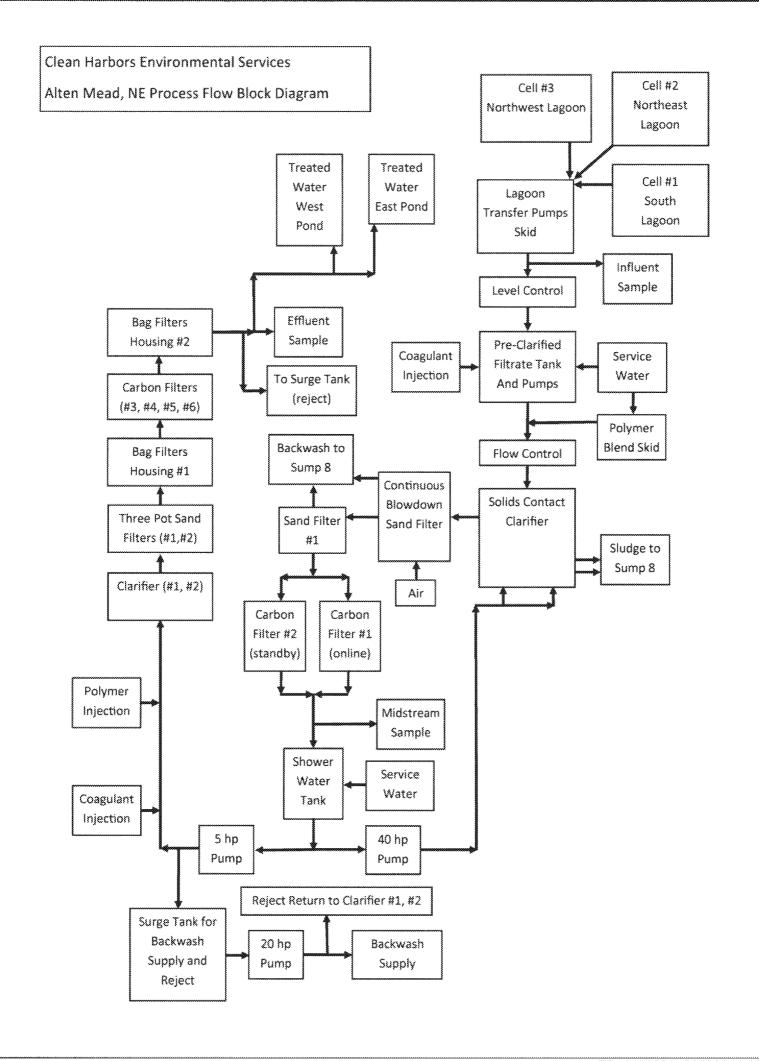
Diuron Triethanolamine dodecylbenzenesulfonate

Epichlorohydrin Triethylamine
Ethion Trimethylamine
Ethylene diamine Uranium

Ethylene dibromide Vanadium
Formaldehyde Vinyl acetate
Furfural Xylene
Guthion Xylenol
Isoprene Zirconium

Isopropanolamine Dodecylbenzenesulfonate





### Outfall 003

- A Land Application Proposal will be submitted to NDEE that identifies the farms to receive land application will be identified.
- Compliance sampling of effluent: Under the Land Application Proposal to NDEE, composite samples of stored treated water will be analyzed for contemporary pesticides, nutrients, and salts; and NDEE will approve field-specific Best Management Practices (BMP) Plans for each farm. The BMP Plans will include nutrient budgets and will specify the allowed annual quantity of water that would be within nutrient and salt loading thresholds, as well as grams-per-acre thresholds for additional pesticide residues added to each property via land application.
- Land application would be 7 days per week for an average of 5 months per year (March, April, June, October, November).

84069 PCS

# **Buell, Thomas**

From:

Don Gunster <dgunster@newfields.com>

Sent:

Friday, December 31, 2021 9:07 AM

To:

Buell, Thomas

Cc:

Tanya Ambrose; Stoll, Hillary; Brian Wellington

Subject:

AtEn: NPDES Permit Renewal Application

Attachments:

NPDES Permit Renewal 12.30.21.pdf

Tom,

Attached is the NPDES permit renewal application on behalf of AltEn. Please let me know if you any questions regarding this submission.

Thank you,

Don

Donald G. Gunster, M.E.M. Partner/Senior Scientist



300 Ledgewood Place Suite 305 Rockland, MA 02370





HTS1:684-8040 ext 113



1404743319860



17011-88148048



DGunster@Newfields.com